

## Features

- One stop solution for all Medical Gas Pipeline System fittings
- Fittings precision machined in CNC Turning Centers
- Comply with International Medical Standards
- Manufacturing in ISO 13485:2016 accredited factory

## Ball Valves

**Medical Gas Pipeline Shut-off Valves :** Full bore ball valves to allow instant shut-off of main, risers or branch lines of a pipeline system. These are de-greased, pressure tested and blown clean. End fittings made of brass are provided to facilitate joining with copper line pipes by brazing or soldering without damaging seal components of valves.

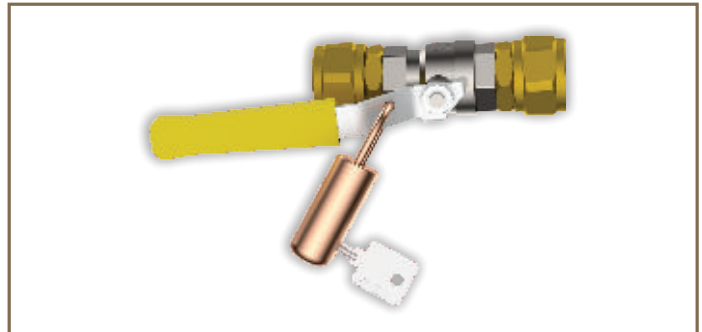
Conforms to	BS EN 331 : 2015, IS / ISO 7396 - 1 : 2016 + A1 : 2017
Valve Housing	Nickel plated Brass
Ball	Chrome plated Brass
Stem	Nickel plated Brass
Working pressure	30 bar (435 psi)
Temperature range	-20 °C to 130 °C [-4 °F to 266 °F]
Gases	O <sub>2</sub> , N <sub>2</sub> O, O <sub>2</sub> /N <sub>2</sub> O (Entonox), Medical Air (AIR 4), Instrument Air (AIR 7), Vacuum, AGSS, Helium/Oxygen mixture (Heliox), Nitrogen, Triple mix gas (Tri-gas: CO <sub>2</sub> , O <sub>2</sub> & N <sub>2</sub> O) and other gas mixtures classified as medical gases

### Low Pressure Valves



Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref	Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref
3/8"	12 mm	6101010	1¼"	35 mm	6101410
1/2"	15 mm	6101110	1½"	42 mm	6101510
3/4"	22 mm	6101210	2"	54 mm	6101610
1"	28 mm	6101310	3"	76 mm	6101710

### Low Pressure Lockable Valves



Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref	Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref
3/8"	12 mm	6101050	1¼"	35 mm	6101450
1/2"	15 mm	6101150	1½"	42 mm	6101550
3/4"	22 mm	6101250	2"	54 mm	6101650
1"	28 mm	6101350	3"	76 mm	6101750

### End Fittings for Valves

	Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref.	Valve Thread Size (BSP)	Copper Pipe OD Size	Order Ref.
	3/8"	12 mm	6101030	1¼"	35 mm	6101430
	1/2"	15 mm	6101130	1½"	42 mm	6101530
	3/4"	22 mm	6101230	2"	54 mm	6101630
	1"	28 mm	6101330	3"	76 mm	6101730

### Manifold Fittings

High Pressure Flexible Pigtail : Conforms to IS / ISO 21969 : 2009 (Max 210 bar / 3045 psi)						
Medical Gas	SS Braided	Order Ref.	Thermoplastic SS Braided	Order Ref.	Annealed Coppr Pigtail	Order Ref.
Oxygen		6132100		6133100	 160 bar / 2320 psi max.	6131100
Nitrous Oxide		6132400		6133400		6131400
Carbon Di-oxide		6132600		6133600		6131600
Med. Air (AIR 4)		6132300		6133300		6131300
Nitrogen		6132700		6133700		6131700
 HP NRV (230 bar / 3330 psi max)			<b>NOTE:</b> <ul style="list-style-type: none"> <li>Cylinder end gas specific connections are as per Indian Standards (IS)</li> <li>Other medical gas connections and connection of different standards are provided on request</li> </ul>			

## Pipe Support Clamps

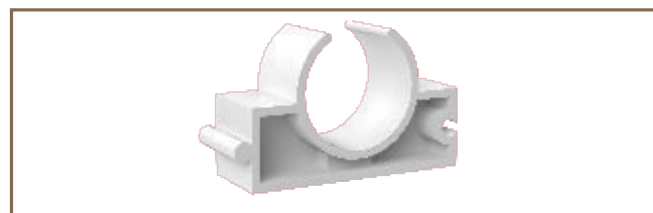
Designed in accordance with  
IS / ISO 7396 - 1 : 2016 + A1 : 2017



Copper pipe OD Size	Order Ref. Ref	Copper pipe OD Size	Order Ref
12 mm	6050100	35 mm	6050104
15 mm	6050101	42 mm	6050105
22 mm	6050102	54 mm	6050106
28 mm	6050103	76 mm	6050107

## Saddles clip-on type (Plastic)

for horizontal and vertical surfaces



Copper pipe OD Size	Order Ref	Copper pipe OD Size	Order Ref
12 mm	6050200	28 mm	6050203
15 mm	6050201	35 mm	6050204
22 mm	6050202		

## Metallic Clamp (Zinc coated)

for horizontal and vertical surfaces & suspension

	Copper Pipe OD Size	Order Ref.
	42 mm	6050205
	54 mm	6050206
	76 mm	6050207

## NIST (Non Interchangeable Screw Threads) connectors

- Mounting safety
- Oxygen cleaned Copper pipe
- Precision machine threaded Brass coupling
- Flare at the end of Copper Tail pipe for ease of fitting, alignment and brazing
- Different gas services and sizes available
- Components are laser marked for easy identification
- Customized design on request



Used in • Hospital pendants • Panels • MRI line breaks • Application requiring indexed Line connections

### Technical Information

Conforms to	IS / ISO 18082 : 2014 + A1 : 2017, IS / ISO 7396-1 : 2016 + A1 : 2017
NIST Body	Precision machined brass coupling with check valve
Tail Pipe - 150 mm	'K' grade Copper- Flared to accept 15 mm OD
End connection	System end : Flared to accept 15 mm drop pipe Device end : Barbed hose connector
Identification	Laser marked for gas service on each component

### Ordering Information

Oxygen NIST Connector 15 mm OD	6112100
Nitrous Oxide NIST Connector 15 mm OD	6112400
Medical Air (AIR 4) NIST Connector 15 mm OD	6112300
Surgical Air (AIR 7) NIST Connector 15 mm OD	6112500
Vacuum NIST Connector 15 mm OD	6112200
AGSS / WAGD NIST Connector 15 mm OD	6112700
Carbon Di-oxide NIST Connector 15 mm OD	6112600

Note : Contact for requirement of other sizes



Gas specific NIST connector with 15 mm dia medical grade copper stub pipe

## NIST Screw connectors with Check Valve, Nut and Nipple Barb

(Conforms to IS / ISO 18082 : 2014 + A1 : 2017)

- Mounting safety
- Oxygen cleaned Copper Pipe
- Precision machine threaded Brass coupling
- Different gas services & sizes available
- Components are laser marked for easy identification
- Customized design on request

### Ordering Information

Oxygen	N <sub>2</sub> O	AIR	4	AIR	7	Vacuum	AGSS	CO <sub>2</sub>
6113100	6113400	6113300	6113500	6113200	6113700	6113600		

Note: Option to customize NIST Connectors & Nipple ends are available



NIST Connectors

## Hose Assemblies

Conforms to : IS / ISO 5359 : 2014 + A1 : 2017, BS EN 1089 - 3 : 2011, IS / ISO 32 : 1977, IS / ISO 9170 - 1 : 2017  
IS / ISO 10079 - 1 : 2015 + A1 : 2018

### Ordering Information

Configure the hose assembly:

Source End Connector	Code	Medical Gas	Code	Patient End Connector	Code	Standard Length (L) in cm
BS type	3	Oxygen	1	1/8" BSP Nut & Nipple barbed	1	Standard L60 / L80 / L300 / L500
DIN type	8	Nitrous Oxide	4	3/8" BSP Nut & Nipple barbed	3	Contact for customized length LXX / LXXX
DISS type	6	Vacuum	2	NIST Nut & Nipple barbed	9	
OHMEDA type	4	Med. Air AR-4	3			
PB type	1	Med. Air AR-7	5			
Parkodex type	2	Carbon Di-oxide	6			
NIST type	9	AGSS	7			
Others	0	Specify Gas Service	x			

- Configure to order example: **H821L60** = DIN probe for Vacuum with 1/8" nut & nipple having 600 mm hose length
- Non-standard configuration: **0** (Specify probe standard) **X** (Specify gas) **X** (Specify patient end connector) **LXX** or **XXX** (specify length in cm)
- Contact to customize configuration



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